



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/762,769

DATE: 09/20/2004
 TIME: 16:31:11

Input Set : D:\Seqlist.txt
 Output Set: N:\CRF4\09202004\J762769.raw

4 <110> APPLICANT: Melis, Anastasios
 5 Wintz, Hsu-Ching Chen
 7 <120> TITLE OF INVENTION: MODULATION OF SULFATE PERMEASE FOR
 8 PHOTOSYNTHETIC HYDROGEN PRODUCTION
 11 <130> FILE REFERENCE: BERK-016CIP
 13 <140> CURRENT APPLICATION NUMBER: 10/762,769
 14 <141> CURRENT FILING DATE: 2004-01-21
 16 <150> PRIOR APPLICATION NUMBER: 60/354,760
 17 <151> PRIOR FILING DATE: 2002-02-04
 19 <150> PRIOR APPLICATION NUMBER: 60/377,902
 20 <151> PRIOR FILING DATE: 2002-05-02
 22 <150> PRIOR APPLICATION NUMBER: 10/350,298
 23 <151> PRIOR FILING DATE: 2003-01-22
 25 <160> NUMBER OF SEQ ID NOS: 9
 27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 411
 31 <212> TYPE: PRT
 32 <213> ORGANISM: Chlamydomonas reinhardtii
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 37 Cys Ile Ala Gly Val Gln Arg Ser Pro Ile Arg Leu Gly Thr Ser Ser
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 39 Val Ala His Val Gln Val Ser Pro Ala Gly Leu Gly Arg Tyr Gln Arg
 40 35 40 45
 41 Gln Arg Leu Gln Val Val Ala Ser Ala Ala Ala Ala Ala Phe Asp
 42 50 55 60
 43 Pro Pro Gly Gly Val Ser Ala Gly Phe Ser Gln Pro Gln Gln Leu
 44 65 70 75 80
 45 Pro Gln Gln His Pro Arg Gln Pro Gln Ala Val Ala Glu Val Ala Val
 46 85 90 95
 47 Ala Glu Ser Val Ser Ala Pro Ala Ser Ala Ala Pro Ser Asn Asp Gly
 48 100 105 110
 49 Ser Pro Thr Ala Ser Met Asp Gly Gly Pro Ser Ser Gly Leu Ser Ala
 50 115 120 125
 51 Val Pro Ala Ala Ala Thr Ala Thr Asp Leu Phe Ser Ala Ala Ala Arg
 52 130 135 140
 53 Leu Arg Leu Pro Asn Leu Ser Pro Ile Ile Thr Trp Thr Phe Met Leu
 54 145 150 155 160
 55 Ser Tyr Met Ala Phe Met Leu Ile Met Pro Ile Thr Ala Leu Leu Gln
 56 165 170 175
 57 Lys Ala Ser Leu Val Pro Leu Asn Val Phe Ile Ala Arg Ala Thr Glu

(pg.6)

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| 60 | 195 | 200 | 205 |
| 61 | Ala Ala Ala Ile Asn Cys Val Phe Gly Phe Val Leu Ala Trp Val Leu | | |
| 62 | 210 | 215 | 220 |
| 63 | Val Arg Tyr Asn Phe Ala Gly Lys Lys Ile Leu Asp Ala Ala Val Asp | | |
| 64 | 225 | 230 | 235 |
| 65 | 240 | 245 | 250 |
| 66 | 255 | 260 | 265 |
| 67 | 270 | 275 | 280 |
| 68 | 285 | 290 | 295 |
| 69 | 295 | 300 | 305 |
| 70 | 310 | 315 | 320 |
| 71 | 320 | 325 | 330 |
| 72 | 335 | 340 | 345 |
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| 97 | gtaagccacc agacactacc aagttagagta atccatttgt ataggtacag aatatggagc 180 | | |
| 98 | gagttgcag ccatcagctt gcctcgtcgc gagggaggcc atgcatcgct ggggtgcagc 240 | | |
| 99 | ggtcgccccat ccgacttaggg acttcaagcg ttgctcatgt gcaggtctct cggcaggta 300 | | |
| 100 | agcacccgcgc tcggcggcgt gtacacatgg ggccgtcagg ccaactgcgt ttgttggcta 360 | | |
| 101 | tgcaaccgaa acaggccttg ggagatatca acggcaaaga ctgcaagtgc tggcgctcgc 420 | | |
| 102 | agctgcggca gcggctttcg accctcctgg aggtgcgtgg cgtgagggct gcacgggtgc 480 | | |
| 103 | gggttggcct gaaaaccaag cctcgccacg actacctgca acagcattgc ccgcattctcc 540 | | |
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| 105 | ggcggccgcct gcggggccttg ggcgctggct acgctgaccg cacggcacga cttggcacgg 660 | | |
| 106 | cctggcgcgg cctgagcggc cccccccctc ctgatggccc cacgctttgc cgcccacgcc 720 | | |
| 107 | gctccccgca ggtgtctccg cgggttctc gcagccgcaa cagcagctgc cacaacagca 780 | | |
| 108 | cccacgccaa ccacaggcgg tggcggaggt agctgtcgcc gagtcagtct cggcgccccgc 840 | | |
| 109 | ttctgcggcg ccctccaatg atggctcgcc cacggcctcc atggacggcgc gccccagetc 900 | | |

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 119 aagaggacga acatggggct atccagcaag ctctgtctagg gaaggaggag tttgggagaa 1500
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161 <210> SEQ ID NO: 3
162 <211> LENGTH: 1984
163 <212> TYPE: DNA
164 <213> ORGANISM: Chlamydomonas reinhardtii
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169 gtaagccacc agacactacc aagttagagta atccatttgt ataggtacag aatatggagc 180
170 gagtttgcag ccatacgat gcctcgtcgc gagggaggcc atgcatacgat ggggtgcagc 240
171 ggtcgccccat ccgacttaggg acttcaagcg ttgctcatgt gcaggctctt cccggcaggcc 300
172 ttggggagata tcaacggcaa agactgcaag tcgtggcgcc tcgcagctgc gcagcggctt 360
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200 gcgc 1984
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203 <211> LENGTH: 1863
204 <212> TYPE: DNA
205 <213> ORGANISM: Chlamydomonas reinhardtii
207 <400> SEQUENCE: 4
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210 acgcacacta gtgcgtccctc tacctcaaaat tactgcact catcatcgt tatagagagc 180
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212 caacaaagcc gaggcgacct actggctc aaatcgaaaa cagcaggagg catggcgcc 300
 213 catggagggg gcttagggga accggctcat aattggatca agaaagctact cgttgggtgc 360
 214 gcggcgccgt acatcggtt ggtcgctg gtgccttcc tgaatgtctt cgtccaggcg 420
 215 ttcgccaagg gcatcattcc ctccctggag cactgcgcgg accccggactt tctgcacgca 480
 216 ctcaagatga cgctgatgt ggcgttcgtg acggtgccgc tcaaacacggt gtttggcacg 540
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 236 cgcgcgcggc cgcataaaaac atgactgcat gtgtcggtgt tgacggtaca gttatgccgt 1740
 237 gccccgtttt acaagcgaga tagaggcaca ctccacgtatg tatgcattga gcccagtaga 1800
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 239 aag 1863

241 <210> SEQ ID NO: 5

242 <211> LENGTH: 2253

243 <212> TYPE: DNA

244 <213> ORGANISM: Chlamydomonas reinhardtii

246 <400> SEQUENCE: 5

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 438

VERIFICATION SUMMARY

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L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:432